

In the claims

Claim 1. (currently amended) A flow injection electrochemical detecting device comprising:

a base (10) with a top, a front end, a rear end, and sides, and having a recess (12) defined in the top extending to the front end ~~to adapt to receive a working electrode and a pivotal post (11) formed near the rear end;~~

a cover (20) with a top, a bottom, a front end, a rear end and two sides, which pivotally mounts on the base (10) and has a cutout (21) defined at the rear end to receive the pivotal post (11) of the base (10), a pin (111) penetrating the cover (20) at the cutout (21) and the pivotal post (11) to pivotally connect the cover (20) to the base (10), an annular trench (28) defined in the bottom of the cover, a resilient separator with an inner opening, which is an O-ring (282) and is partially attached to mounted in the annular trench (28) bottom of the cover (20), and multiple channels defined in through the cover (20) and each having an opening at an area within the annular trench (28) to communicate with the inner opening of the resilient separator; -and
a locking device attached between the base (10) and the cover (20).

Claim 2. (currently amended) The flow injection electrochemical detecting device as claimed in claim 1, wherein

two ball dents (23) are defined at the front end of the cover (20); and

the locking device comprises:

two locating posts (14) formed on the top of the base (10) at the front

end and each of the two locating posts (14) having

a threaded hole (142) defined through the locating post (14);

a threaded rod (18) screwing into the threaded hole (142) and

having a bore (182) defined in the threaded rod (18);

a resilient element (184) accommodated inside the bore (182);

a ball (186) retractably mounted inside the locating post (14) and

mounted on the resilient element (184) to detachably engage and lock with a

ball dent (23); and

~~two ball dents (23) defined at the front end of the cover (20) to correspond to the balls (186).~~

Claim 3. (currently amended) The flow injection electrochemical detecting device as claimed in claim 2, wherein the cover (20) further has two side cutouts (25) defined at the front end to match with the locating posts (14) and the two ball dents (23) are respectively defined in periphery of the two side cutouts (25).

Claims 4 and 5 are deleted.

Claim 6. (currently amended) The flow injection electrochemical detecting device as claimed in claim 35, wherein the resilient element is a spring.

Claim 7 is deleted.

Claim 8 (currently amended) The flow injection electrochemical detecting device as claimed in claim 44, wherein the multiple channels are:

an inlet (22) defined through the cover (20) from the top and having an opening (221) at the area within the annular trench (28);

a first outlet (24) defined in the cover (20) from one side and having an opening (241) at the area within the annular trench (28); and

a second outlet (26) defined in the cover (20) from another side and having an opening (261) at the area within the annular trench (28).

Claim 9 (currently amended) The flow injection electrochemical detecting device as claimed in claim 15, wherein the multiple channels are:

an inlet (22) defined through the cover (20) from the top and having an opening (221) at the area within the annular trench (28);

a first outlet (24) defined in the cover (20) from one side and having an opening (241) at the area within the annular trench (28); and

a second outlet (26) defined in the cover (20) from another side and having an opening (261) at the area within the annular trench (28).

Claim 10 (currently amended) The flow injection electrochemical detecting device as claimed in claim 27, wherein the multiple channels are:

an inlet (22) defined through the cover (20) from the top and having an opening (221) at the area within the annular trench (28);

a first outlet (24) defined in the cover (20) from one side and having

an opening (241) at the area within the annular trench (28); and
a second outlet (26) defined in the cover (20) from another side and having
an opening (261) at the area within the annular trench (28).

Claim 11 (currently amended) The flow injection electrochemical detecting device as claimed in claim 58, wherein the device further has a reference electrode (30) to engage with the first outlet (24).

Claim 12 (currently amended) The flow injection electrochemical detecting device as claimed in claim 69, wherein the device further has a reference electrode (30) to engage with the first outlet (24).

Claim 13 (currently amended) The flow injection electrochemical detecting device as claimed in claim 710, wherein the device further has a reference electrode (30) to engage with the first outlet (24).

Claim 14 (currently amended) The flow injection electrochemical detecting device as claimed in claim 58, wherein the device further has an auxiliary electrode (40) to engage with the second outlet (26).

Claim 15 (currently amended) The flow injection electrochemical detecting device as claimed in claim 69, wherein the device further has an auxiliary electrode (40) to engage with the second outlet (26).

Claim 16 (currently amended) The flow injection electrochemical detecting device as claimed in claim 740, wherein the device further has an auxiliary electrode (40) to engage with the second outlet (26).

Claim 17 (currently amended): The flow injection electrochemical detecting device as claimed in claim 841, wherein the device further has an auxiliary electrode (40) to engage with the second outlet (26).

Claim 18 (currently amended) The flow injection electrochemical detecting device as claimed in claim 1417, wherein the recess (12) is a dovetail recess having a width tapering toward the top of the recess (12).

Claim 19 (currently amended) The flow injection electrochemical detecting device as claimed in claim 1417, wherein the base (10) further has multiple grooves defined in the sides of the base to make the base easily held.